

Press machine - has variable link, pivoted to same pivoting position of first and second links when slide slides to bottom center position in frame, so that its turn position sets slide stroke of slide
Patent Assignee: KYORI KOGYO KK

Patent Family

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Patent Details

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Abstract:

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NOVELTY - A linkage, comprise of three links (9,10,11), couples a slide (3) and a guiding mechanism consists of linear horizontal and vertical guiding grooves (7,12). A variable link (20), pivoted to a frame (1), is pivoted to the same pivoting position of links (9,10) when the slide slides to the bottom center position. The slide stroke of slide is set by setting the turn position of variable link.

DETAILED DESCRIPTION - One end of the link (9) is pivoted to a slide mechanism (8) which converts the rotational motion of a crankshaft (5) into a rectilinear motion of vertical direction. The other end of the link (9) is pivoted with one end of the links (10,11). The other end of the link (10) is pivoted to the guiding mechanism to be guided by the guiding groove (12) to the horizontal direction. The other end of the link (11) is pivoted to the variable link.

USE - None given.

ADVANTAGE - Enables to change the stroke of the slide by fixing the slide to the bottom center position. Enables to decelerate the slide in the top and bottom center position vicinity. Ensures high speed processing in the press machine.

DESCRIPTION OF DRAWING(S) - The figure shows the longitudinal cross-section view of the press machine. (1) Frame; (3) Slide; (5) Crankshaft; (7,12) Vertical guiding grooves; (8) Slide mechanism; (9,10,11) Links; (20) Variable link.

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